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1 [Using metalevel techniques in a flexible toolkit for CSCW applications](#)

June 1998 **Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2
Publisher: ACM
Full text available: (292.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 101, Downloads (Overall): 1053, Citation Count: 16

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

2 [External memory algorithms and data structures: dealing with massive data](#)

June 2001 **Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM
Full text available: (828.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 100, Downloads (12 Months): 951, Downloads (Overall): 6484, Citation Count: 101

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

3 [Achieving convergence, causality preservation, and intention preservation in real-time cooperative editing systems](#)

March 1998 **Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 1
Publisher: ACM
Full text available: (273.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 149, Downloads (Overall): 1045, Citation Count: 83

Real-time cooperative editing systems allow multiple users to view and edit the same text/graphic/image/multimedia document at the same time for multiple sites connected by communication networks. Consistency maintenance is one of the most significant ...


Keywords: REDUCE, causality preservation, computer-supported cooperative work, consistency maintenance, convergence, cooperative editing, groupware systems, intention preservation, operational transformation

4 [Compiler-based I/O prefetching for out-of-core applications](#)

 [Angela Demke Brown, Todd C. Mowry, Orran Krieger](#)

May 2001 **Transactions on Computer Systems (TOCS)** , Volume 19 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (499.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 58, Downloads (Overall): 881, Citation Count: 16

Current operating systems offer poor performance when a numeric application's working set does not fit in main memory. As a result, programmers who wish to solve "out-of-core" problems efficiently are typically faced with the onerous task ...

Keywords: compiler optimization, prefetching, virtual memory

5 [Ace, a language for parallel programming with customizable protocols](#)

 [Mukund Raghuvaran, Anne Rogers](#)

August 1999 **Transactions on Computer Systems (TOCS)** , Volume 17 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (297.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 53, Downloads (Overall): 354, Citation Count: 0

Customizing the protocols that manage accesses to different data structures within an application can improve the performance of software shared-memory programs substantially. Existing systems for using customizable protocols are hard to use directly ...

Keywords: parallel processing

6 [Manageability, availability, and performance in porcupine: a highly scalable, cluster-based mail service](#)

 [Yasushi Saito, Brian N. Bershad, Henry M. Levy](#)

August 2000 **Transactions on Computer Systems (TOCS)** , Volume 18 Issue 3

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (2.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 89, Downloads (Overall): 878, Citation Count: 7

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

7 [Formal verification in hardware design: a survey](#)

 [Christoph Kern](#), [Mark R. Greenstreet](#)

April 1999 **Transactions on Design Automation of Electronic Systems (TODAES)** , Volume 4 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  [Full](#) (411.53 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 318, Downloads (Overall): 2443, Citation Count: 20

In recent years, formal methods have emerged as an alternative approach to ensuring the quality and correctness of hardware designs, overcoming some of the limitations of traditional validation techniques such as simulation and testing. There are two ...

Keywords: case studies, formal methods, formal verification, hardware verification, language containment, model checking, survey, theorem proving

8 [Providing reliable and fault tolerant broadcast delivery in mobile ad-hoc networks](#)

[Elena Pagani](#)

October 1999 **Mobile Networks and Applications** , Volume 4 Issue 3


Publisher: Kluwer Academic Publishers

Full text available:  [Full](#) (423.51 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 39, Downloads (Overall): 828, Citation Count: 18

Mobile ad-hoc networks are making a new class of mobile applications feasible. They benefit from the fast deployment and reconfiguration of the networks, are mainly characterized by the need to support many-to-many interaction schema within groups of ...

9 [A structured approach to instrumentation system development and evaluation](#)

 [Abdul Waheed](#), [Diane T. Rorer](#)

December 1995 **Supercomputing '95: Proceedings of the 1995 ACM/IEEE conference on Supercomputing 1995** (CDROM)

Publisher: ACM

Full text available:  [HTML](#) (82.04 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 41, Downloads (Overall): 222, Citation Count: 3

Software instrumentation is a widely used technique for parallel program performance evaluation, debugging, steering, and visualization. With increasing sophistication of parallel tool development technologies and broadening of application areas where ...

Keywords: instrumentation systems, software monitoring, parallel programming tools, parallel processing, modeling, perturbation, performance analysis

10 [Performance modeling of multiprocessor implementations of protocols](#)

[Mats Björkman](#), [Per Gunningberg](#)

June 1998 **IEEE/ACM Transactions on Networking (TON)** , Volume 6 Issue 3


Publisher: IEEE Press

Full text available:  [Full](#) (285.80 KB) **Additional Information:** [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 46, Downloads (Overall): 311, Citation Count: 2

Keywords: multiprocessor, parallel communication protocols, performance modeling, queueing network model

11 [Parallel execution of prolog programs: a survey](#)

 [Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo](#)

July **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 23 Issue 4 2001

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (1.95 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 205, Downloads (Overall): 1263, Citation Count: 13

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

12 [Commutativity analysis: a new analysis technique for parallelizing compilers](#)

 [Pedro C. Diniz / Martin C. Rinard](#)

November 1997 **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 19 Issue 6

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (472.62 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 75, Downloads (Overall): 335, Citation Count: 17

This article presents a new analysis technique, commutativity analysis, for automatically parallelizing computations that manipulate dynamic, pointer-based data structures. Commutativity analysis views the computation as composed of operations on objects. ...


Keywords: parallel computing

13 [Models and languages for parallel computation](#)

 [David B. Skillicorn, Domenico Talia](#)

June 1998 **Computing Surveys (CSUR)** , Volume 30 Issue 2

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (298.05 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 80, Downloads (12 Months): 602, Downloads (Overall): 3662, Citation Count: 56

We survey parallel programming models and languages using six criteria to assess their suitability for realistic portable parallel programming. We argue that an ideal model should be easy to program, should have a software development methodology, should ...


Keywords: general-purpose parallel computation, logic programming languages, object-oriented languages, parallel programming languages, parallel programming models, software development methods, taxonomy

14 [Evaluating the performance limitations of MPMD communication](#)

 [Chi-Chao Chang, Grzegorz Czajkowski, Thorsten von Eicken, Carl Kesselman](#)

November 1997 **Supercomputing '97: Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM

Full text available:  Pdf (125.61 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 22, Downloads (Overall): 148, Citation Count: 0

The MPMD approach for parallel computing is attractive for programmers who seek fast development cycles, high code re-use, and modular programming, or whose applications exhibit irregular computation loads and communication patterns. RPC is widely adopted ...

15 [High performance dynamic lock-free hash tables and list-based sets](#)



[Maged M. Michael](#)

August 2002 **SPAA '02: Proceedings of the fourteenth annual ACM symposium on Parallel algorithms and architectures**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (238.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 167, Downloads (Overall): 1181, Citation Count: 21

Lock-free (non-blocking) shared data structures promise more robust performance and reliability than conventional lock-based implementations. However, all prior lock-free algorithms for sets and hash tables suffer from serious drawbacks that prevent ...

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